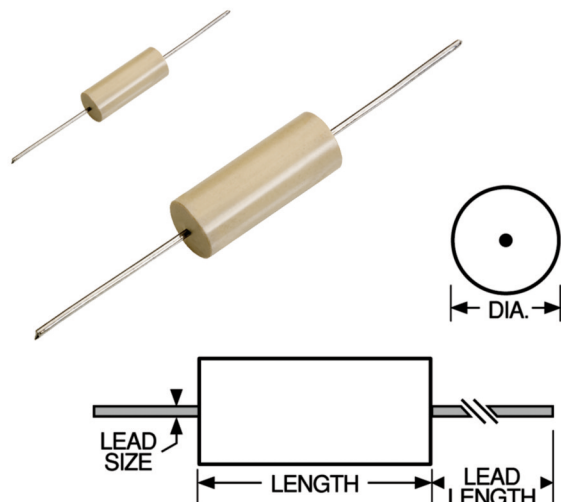


**SERIES****1944R & 1945R**  
**1944 & 1945****Molded Unshielded RF Coils**

Actual Size

**Test Methods** MIL-PRF-15305 test methods, only.

MS21389-01 to MS21389-17, reference - 1944 Series

MS21390-01 to MS21390-39, reference - 1945 Series

**Physical Parameters**

|             | Inches         | Millimeters    |
|-------------|----------------|----------------|
| Length      | 0.420 to 0.447 | 10.67 to 11.35 |
| Diameter    | 0.168 to 0.193 | 4.27 to 4.90   |
| Lead Size   |                |                |
| AWG #22 TCW | 0.023 to 0.027 | 0.584 to 0.686 |
| Lead Length | 1.30 Min.      | 33.02 Min.     |

**Current Rating at 90°C Ambient** 35°C Rise**Operating Temperature** -55°C to +125°C**Maximum Power Dissipation at 90°C**

Series 1944: 0.385 W

Series 1945: 0.330 W

**Marking** DELEVAN; inductance with units and tolerance; date code (YYWWL). Note: An R before the date code indicates a RoHS component.

Example: 1944-14M

Front:                      Reverse:  
DELEVAN                  0704A  
1.2uH±20%

**Packaging** Tape & reel: 12" reel, 2500 pieces max.; 14" reel, 3000 pieces max.**Made in the U.S.A.**

| DASH NUMBER*                                           | MIL DASH # (Ref.) | INDUCTANCE (uH) | TOLERANCE | Q TEST FREQUENCY (MHz) | INDUCTANCE TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | Q MINIMUM | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|--------------------------------------------------------|-------------------|-----------------|-----------|------------------------|---------------------------------|-------------------|-----------|------------------------------|-----------------------------|
| <b>MS21389 (Reference) – SERIES 1944 PHENOLIC CORE</b> |                   |                 |           |                        |                                 |                   |           |                              |                             |
| -01M                                                   | 1                 | 0.10            | ± 20%     | 25                     | 50                              | 75                | 400       | 0.020                        | 4000                        |
| -02M                                                   | 2                 | 0.12            | ± 20%     | 25                     | 50                              | 75                | 400       | 0.025                        | 3500                        |
| -03M                                                   | 3                 | 0.15            | ± 20%     | 25                     | 50                              | 75                | 400       | 0.030                        | 3000                        |
| -04M                                                   | 4                 | 0.18            | ± 20%     | 25                     | 50                              | 65                | 400       | 0.030                        | 3000                        |
| -05M                                                   | 5                 | 0.22            | ± 20%     | 25                     | 50                              | 65                | 400       | 0.030                        | 3000                        |
| -06M                                                   | 6                 | 0.27            | ± 20%     | 25                     | 45                              | 65                | 376       | 0.040                        | 2700                        |
| -07M                                                   | 7                 | 0.33            | ± 20%     | 25                     | 40                              | 65                | 352       | 0.045                        | 2500                        |
| -08M                                                   | 8                 | 0.39            | ± 20%     | 25                     | 40                              | 60                | 320       | 0.070                        | 2000                        |
| -09M                                                   | 9                 | 0.47            | ± 20%     | 25                     | 25                              | 55                | 288       | 0.070                        | 2000                        |
| -10M                                                   | 10                | 0.56            | ± 20%     | 25                     | 25                              | 50                | 264       | 0.100                        | 1700                        |
| -11M                                                   | 11                | 0.68            | ± 20%     | 25                     | 25                              | 50                | 240       | 0.120                        | 1500                        |
| -12M                                                   | 12                | 0.82            | ± 20%     | 25                     | 25                              | 45                | 220       | 0.160                        | 1300                        |
| -13M                                                   | 13                | 1.00            | ± 20%     | 25                     | 20                              | 45                | 200       | 0.230                        | 1100                        |
| -14M                                                   | 14                | 1.20            | ± 20%     | 7.9                    | 20                              | 45                | 176       | 0.280                        | 1000                        |
| -15K                                                   | 15                | 1.50            | ± 10%     | 7.9                    | 15                              | 45                | 160       | 0.380                        | 850                         |
| -16K                                                   | 16                | 1.80            | ± 10%     | 7.9                    | 15                              | 45                | 144       | 0.540                        | 720                         |
| -17K                                                   | 17                | 2.20            | ± 10%     | 7.9                    | 15                              | 45                | 132       | 0.750                        | 610                         |
| <b>MS21390 (Reference) – SERIES 1945 IRON CORE</b>     |                   |                 |           |                        |                                 |                   |           |                              |                             |
| -01K                                                   | 1                 | 2.70            | ± 10%     | 7.9                    | 10                              | 55                | 88        | 0.11                         | 1600                        |
| -02K                                                   | 2                 | 3.30            | ± 10%     | 7.9                    | 10                              | 55                | 80        | 0.14                         | 1400                        |
| -03K                                                   | 3                 | 3.90            | ± 10%     | 7.9                    | 10                              | 60                | 76        | 0.19                         | 1200                        |
| -04K                                                   | 4                 | 4.70            | ± 10%     | 7.9                    | 7.9                             | 70                | 72        | 0.28                         | 1000                        |
| -05K                                                   | 5                 | 5.60            | ± 10%     | 7.9                    | 7.9                             | 65                | 64        | 0.34                         | 900                         |
| -06K                                                   | 6                 | 6.80            | ± 10%     | 7.9                    | 7.9                             | 65                | 56        | 0.43                         | 800                         |
| -07K                                                   | 7                 | 8.20            | ± 10%     | 7.9                    | 7.9                             | 60                | 52        | 0.56                         | 720                         |
| -08K                                                   | 8                 | 10.0            | ± 10%     | 7.9                    | 5.0                             | 60                | 48        | 0.67                         | 650                         |
| -09K                                                   | 9                 | 12.0            | ± 10%     | 2.5                    | 5.0                             | 65                | 42.4      | 0.81                         | 590                         |
| -10K                                                   | 10                | 15.0            | ± 10%     | 2.5                    | 2.5                             | 80                | 37.6      | 1.15                         | 500                         |
| -11K                                                   | 11                | 18.0            | ± 10%     | 2.5                    | 2.5                             | 75                | 34.4      | 1.40                         | 460                         |
| -12K                                                   | 12                | 22.0            | ± 10%     | 2.5                    | 2.5                             | 75                | 32.0      | 1.60                         | 430                         |
| -13J                                                   | 13                | 27.0            | ± 5%      | 2.5                    | 2.5                             | 75                | 28.8      | 2.30                         | 360                         |
| -14J                                                   | 14                | 33.0            | ± 5%      | 2.5                    | 2.5                             | 85                | 25.6      | 3.30                         | 300                         |
| -15J                                                   | 15                | 39.0            | ± 5%      | 2.5                    | 2.5                             | 80                | 20.8      | 3.32                         | 290                         |
| -16J                                                   | 16                | 47.0            | ± 5%      | 2.5                    | 2.5                             | 80                | 17.6      | 3.70                         | 275                         |
| -17J                                                   | 17                | 56.0            | ± 5%      | 2.5                    | 2.5                             | 75                | 15.2      | 3.99                         | 265                         |
| -18J                                                   | 18                | 68.0            | ± 5%      | 2.5                    | 2.5                             | 75                | 12.8      | 4.48                         | 250                         |
| -19J                                                   | 19                | 82.0            | ± 5%      | 2.5                    | 2.5                             | 75                | 10.4      | 5.07                         | 235                         |
| -20J                                                   | 20                | 100             | ± 5%      | 2.5                    | 1.5                             | 75                | 8.00      | 5.78                         | 220                         |
| -21J                                                   | 21                | 120             | ± 5%      | 0.79                   | 0.79                            | 65                | 5.76      | 5.00                         | 170                         |
| -22J                                                   | 22                | 150             | ± 5%      | 0.79                   | 0.79                            | 65                | 5.36      | 5.80                         | 164                         |
| -23J                                                   | 23                | 180             | ± 5%      | 0.79                   | 0.79                            | 65                | 5.04      | 6.60                         | 158                         |
| -24J                                                   | 24                | 220             | ± 5%      | 0.79                   | 0.79                            | 65                | 4.72      | 7.40                         | 155                         |
| -25J                                                   | 25                | 270             | ± 5%      | 0.79                   | 0.79                            | 65                | 4.48      | 8.00                         | 150                         |
| -26J                                                   | 26                | 300             | ± 5%      | 0.79                   | 0.79                            | 65                | 4.24      | 8.60                         | 145                         |
| -27J                                                   | 27                | 330             | ± 5%      | 0.79                   | 0.79                            | 65                | 4.00      | 8.90                         | 142                         |
| -28J                                                   | 28                | 360             | ± 5%      | 0.79                   | 0.79                            | 65                | 3.76      | 9.60                         | 137                         |
| -29J                                                   | 29                | 390             | ± 5%      | 0.79                   | 0.79                            | 65                | 3.60      | 9.90                         | 135                         |
| -30J                                                   | 30                | 430             | ± 5%      | 0.79                   | 0.79                            | 65                | 3.44      | 10.4                         | 131                         |
| -31J                                                   | 31                | 470             | ± 5%      | 0.79                   | 0.79                            | 65                | 3.20      | 10.9                         | 128                         |
| -32J                                                   | 32                | 510             | ± 5%      | 0.79                   | 0.79                            | 65                | 3.04      | 11.6                         | 124                         |
| -33J                                                   | 33                | 560             | ± 5%      | 0.79                   | 0.79                            | 60                | 2.88      | 11.8                         | 123                         |
| -34J                                                   | 34                | 620             | ± 5%      | 0.79                   | 0.79                            | 60                | 2.80      | 12.5                         | 120                         |
| -35J                                                   | 35                | 680             | ± 5%      | 0.79                   | 0.79                            | 60                | 2.72      | 13.5                         | 115                         |
| -36J                                                   | 36                | 750             | ± 5%      | 0.79                   | 0.79                            | 60                | 2.64      | 14.0                         | 113                         |
| -37J                                                   | 37                | 820             | ± 5%      | 0.79                   | 0.79                            | 60                | 2.48      | 15.0                         | 110                         |
| -38J                                                   | 38                | 910             | ± 5%      | 0.79                   | 0.79                            | 60                | 2.40      | 15.5                         | 107                         |
| -39J                                                   | 39                | 1000            | ± 5%      | 0.79                   | 0.79                            | 60                | 2.24      | 16.5                         | 104                         |

Optional Tolerances: K = 10% J = 5% H = 3% G = 2% F = 1%

\*Complete part # must include series # PLUS the dash #

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)